

GENERAL NOTES

1. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE ALL SURVEY, COORDINATION, ENGINEERING, NEW WORK, AS REQUIRED TO PROVIDE A FULLY OPERATIONAL W-1 PIPE SPRINKLER SYSTEM TO COMPLY WITH THE LATEST EDITION OF N.F.P.A. 13 AND TO MEET THE APPROVAL OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT-ENGINEER COMPLETE DOCUMENTS FOR REVIEW PRIOR TO INSTALLATION OR ORDERING OF ANY MATERIALS. THESE DOCUMENTS SHALL CONSIST OF SHOP DRAWINGS AND MATERIALS/EQUIPMENT SUBMITTAL DATA PREPARED UNDER THE SUPERVISION OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SHALL BE SIGNED, SEALED AND SHALL MEET THE APPROVAL OF ALL THE LOCAL AUTHORITIES PRIOR TO SUBMISSION.
2. ALL PIPING, HANGERS, SUPPORT METHODS AND SPRINKLER HEADS TO BE INSTALLED IN STRICT ACCORDANCE WITH N.F.P.A. 13, AND ALL LOCAL CODES AND ORDINANCES.
3. SPARE SPRINKLER HEADS AND WRENCHES SHALL BE PROVIDED IN ACCORDANCE WITH N.F.P.A. 13.
4. ALL RATED WALLS AND FLOORS TO BE PROPERLY SLEEVED AND SEALED WITH APPROVED FIRE/SMOKE STOP MATERIAL.
5. TEMPERATURE CLASSIFICATION FOR ALL SPRINKLER HEADS SHALL BE ORDINARY UNLESS NOTED OTHERWISE IN THE DRAWINGS. SPRINKLERS IN ELEVATOR HOISTWAYS AND ELEVATOR MACHINE ROOMS SHALL BE INTERMEDIATE TEMPERATURE RATING (175-225 DEGREES).
6. ALL PIPING ABOVE GROUND SHALL BE LIGHT WALL THREADABLE STEEL PIPE FOR 2" AND SMALLER, GROOVED SCHEDULE 10 STEEL PIPE FOR PIPING 2 1/2" AND LARGER. ALLIED XL AND ALLIED SCH. 10 OR APPROVED EQUAL. FITTINGS FOR PIPING 2" AND SMALLER SHALL BE MALLEABLE IRON, 150 PSI BANGED, THREADED, BLACK, ANSI B 16.3 JOINT COMPOUND OR TAPE SHALL BE APPLIED ONLY TO MALE THREADS. SCREWED UNIONS SHALL NOT BE USED ON PIPE LARGER THAN 2 INCH. FITTINGS FOR PIPING 2 1/2" AND LARGER SHALL BE MECHANICAL COUPLING SYSTEM AS MANUFACTURED BY VICTAULIC CORP. OR GRINNELL CORP. "GRULOCK" AT THE CONTRACTOR'S OPTION. ABOVEGROUND CONCEALED SPRINKLER PIPING TO BE CPVC PIPE AND FITTINGS "BLAZEMASTER" CONFORMING TO ASTM F 442, N.F.P.A. 13. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ITS LISTING REQUIREMENTS. UNDERGROUND PIPING SHALL BE CEMENT UNED DUCTILE IRON PIPE AND FITTINGS WITH ASPHALTIC EXTERIOR COATING CONFORMING TO ANSI/AWWA C151/A21.51 AND C104/A21.4. RUBBER GASKET JOINTS SHALL CONFORM TO ANSI/AWWA C111/A21.11. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH N.F.P.A. 24. PROVIDE RESTRAINING FOR FIRE MAINS CONSISTING OF THRUST BLOCKS, TIE RODS, LOCKED MECHANICAL OR PUSH-ON JOINTS IN ACCORDANCE WITH N.F.P.A. 24 REQUIREMENTS. ALL FITTINGS SHALL BE FROM SAME MANUFACTURER. ALL PIPING SHALL BE CONTINUOUSLY MARKED ALONG ITS LENGTH BY THE MANUFACTURER'S NAME, MODEL DESIGNATION AND/OR SCHEDULE IN ACCORDANCE WITH N.F.P.A. 13.
10. ALL FIRE PROTECTION EQUIPMENT AND DEVICES SHALL BE U.L. LISTED AND FACTORY MUTUAL GLOBAL APPROVED.
11. THE WORK THAT IS TO BE DONE UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT, PERMITS, FEES, INSPECTIONS, TESTS, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF FIRE PROTECTION SYSTEM SHOWN ON THE DRAWINGS AND LISTED HEREIN.
12. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY BEND, OFFSET OR OTHER FITTINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION IN THE SPACE ALLOCATED, OR FOR COORDINATION WITH OTHER TRADES. VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOBSITE PRIOR TO FABRICATION OF PIPING AND INSTALLATION OF EQUIPMENT AND MATERIALS.
21. SPRINKLER HEADS SHALL BE AUTOMATIC, CAST BRASS GLASS BULB OR FUSIBLE LINK TYPE, ORDINARY TEMPERATURE RATING UNLESS NOTED OTHERWISE. CONFIGURATION AS NOTED ON DRAWINGS. FACTORY COATING OR FINISH SHALL BE AS NOTED ON SPRINKLER HEAD SCHEDULE. ALL SPRINKLERS SHALL BE PROVIDED WITH MARKINGS DESIGNATING ORIFICE SIZE, DEFLECTOR CHARACTERISTIC AND THERMAL SENSITIVITY. INSTALLATION SHALL BE IN ACCORDANCE WITH N.F.P.A. 13 AND WITH MANUFACTURER'S INSTRUCTIONS. REFER TO SPRINKLER HEAD SCHEDULE THIS SHEET.
22. PROVIDE IDENTIFICATION FOR ALL PIPING, VALVES, ETC. ASSOCIATED WITH THE FIRE PROTECTION SYSTEM. COLOR BANDS, LEGEND AND FLOW ARROWS AT PIPE MARKERS SHALL BE IN ACCORDANCE WITH ANSI A13.1
- A. PROVIDE SIGNAGE WITH MIN. 1 INCH HIGH LETTERING AT FIRE DEPARTMENT CONNECTIONS.
- B. PROVIDE HYDRAULIC DESIGN INFORMATION SIGN(S) AT SPRINKLER SYSTEMS IN ACCORDANCE WITH N.F.P.A. 13
- C. ALL MAIN AND SECTIONAL CONTROL VALVES, DRAIN VALVES, TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF IDENTIFICATION SIGNS IN ACCORDANCE WITH N.F.P.A. 13
23. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF FLORIDA BUILDING CODE, N.F.P.A. 13, 14, 20, 24, 25, 101 AND IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
24. ALL WORK SHALL BE PERFORMED BY STATE LICENSED AND CERTIFIED PERSONNEL IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE CODE 44-46 & 44-48. SUBMIT TO OWNER'S REPRESENTATIVE AS BUILT DRAWINGS, OWNER'S MANUALS, MAINTENANCE MANUALS.

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTORS		✓
FIRE DAMPERS		✓
SMOKE DAMPERS		✓
FIRE RATED ENCLOSURE		✓
FIRE RATED ROOF/FLOOR		✓
CEILING ASSEMBLY		✓
FIRE STOPPING		✓
SMOKE CONTROL*		✓

*EXISTING MALL SMOKE EVAC. SYSTEM COVERAGE LIMITED TO MALL CORRIDOR.

AIR DISTRIBUTION SCHEDULE											
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS MLR-39	4 FT.	SEE FLEX SCHEDULE	ALUM	LAY IN	-----	OBD	-----	MAX. 31	200 CFM/FT	1,2,3,4,5,6
B	TITUS ML-39	5 FT.	SEE FLEX SCHEDULE	ALUM	LAY IN	-----	OBD	2-WAY	MAX. 31	40 CFM/FT	1,2,3,4,5,6

DESIGN BASED ON TITUS AIR DEVICES. OTHER MANUFACTURERS MEETING THE SPECIFIED PERFORMANCE WILL BE ALLOWED.

GENERAL NOTES:

1. PROVIDE SPIN SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION (SEE DETAILS).
2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY, 3-WAY, OR VERTICAL ONLY WHERE INDICATED ON PLANS.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
6. CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER.

MDFR NOTE:
FIRE PROTECTION/FIRE SPRINKLER WORKING PLANS SHALL BE SUBMITTED FOR APPROVAL TO MIAMI-DADE FIRE DEPARTMENT BEFORE ANY FIRE PROTECTION/FIRE SPRINKLER SYSTEM IS INSTALLED OR REMODELED. FIRE SPRINKLERS IN ADDITION TO THOSE SHOWN ON THIS PLAN MAY BE REQUIRED

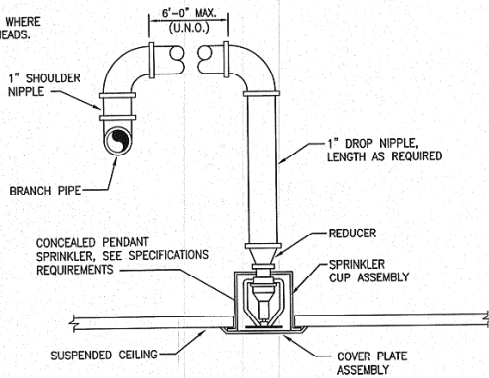
MECHANICAL SCOPE OF WORK:

1. REPLACE EXISTING SUPPLY DEVICES WITH NEW SLOT TYPE DIFFUSERS; REFER TO AIR DEVICE SCHEDULE.
2. PROVIDE NEW FLEX DUCT TO FIT NEW AIR DISTRIBUTION LAY-OUT.

NOTES:

- *DUCTWORK SHOWN ON PLAN IS ONLY FOR REFERENCE. CONTRACTOR SHALL PROVIDE ALL THE FLEX DUCT TO FIT NEW LAY-OUT; MAX. FLEX LENGTH IS 14 FT.
- *BATHROOM EXHAUST FAN TO REMAIN AS IS.

- NOTES:**
1. INSTALL SPRINKLER HEAD IN CENTER OF CEILING TILE AND COORDINATE WITH REFLECTED CEILING PLAN.
 2. PROVIDE RETURN BENDS ARRANGEMENT WHERE REQUIRED TO FACILITATE POSITIONING HEADS.

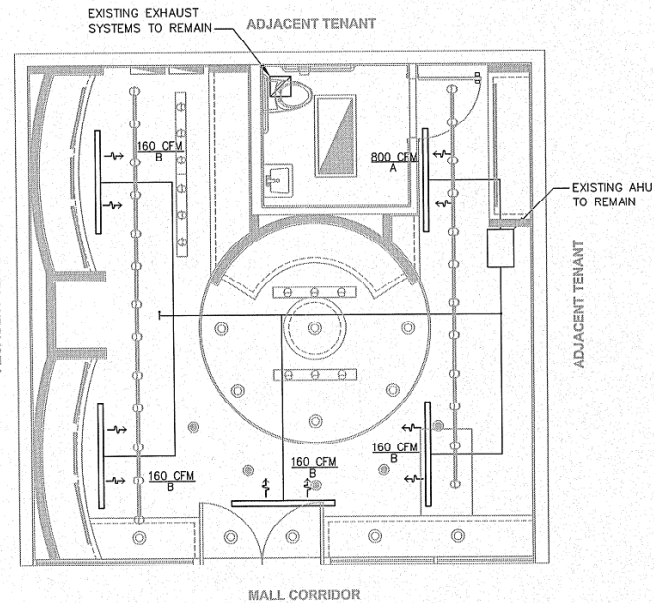


CONCEALED SPRINKLER HEAD DETAIL
SCALE: NONE

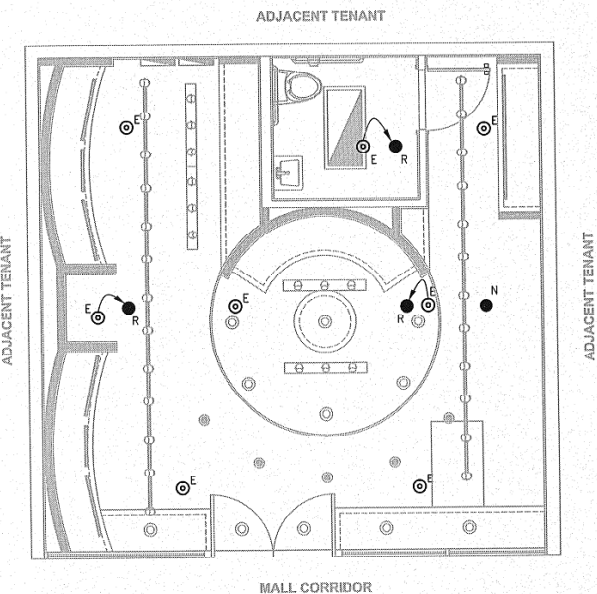
FIRE PROTECTION LEGEND		
SYMBOL	ABREV.	DESCRIPTION
●	N	NEW RECESSED SPRINKLER HEAD
⊙	E	EXISTING RECESSED SPRINKLER HEAD
●	R	RELOCATED RECESSED SPRINKLER HEAD

SPRINKLER HEAD SCHEDULE						
AREA SERVED	MFR. & MODEL NO.	ORIFICE K-FACTOR	CONFIGURATION	TEMP. RATING	FINISH	DESIGN INFO.
AREAS WITH DROPPED CEILINGS (LIGHT HAZARD)	CENTRAL BV-QR SIN C3201	1/2" K=5.6	RECESSED PENDENT QUICK RESPONSE STANDARD COVERAGE	ORDINARY 155	WHITE POLYESTER COATING	---
AREAS WITH DROPPED CEILINGS (ORDINARY HAZARD)	CENTRAL BV-QR SIN C3201	1/2" K=5.6	RECESSED PENDENT QUICK RESPONSE STANDARD COVERAGE	ORDINARY 155	WHITE POLYESTER COATING	---

- NOTES:**
1. ALL SPRINKLERS TO BE U.L. LISTED QUICK RESPONSE.
 2. WHITE POLYESTER SPRINKLER FINISH TO BE U.L. LISTED CORROSION RESISTANT.
 3. SPRINKLER SYSTEM BENEATH THE DROPPED CEILING SHALL BE 0.2 GPM/SQ FT OVER THE MOST REMOTE 3000 SQ. FT. OPERATING AREA.
 4. ABOVE CEILING SPRINKLERS SHALL BE 0.25 GPM/SQ FT OVER THE MOST REMOTE 3000 SQ. FT. OPERATING AREA.



PROPOSED MECH. FLOOR PLAN
SCALE: 1/4"=1'-0"



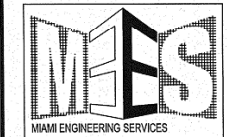
PROPOSED FIRE SPRINKLERS FLOOR PLAN
SCALE: 1/4"=1'-0"

DESIGN TEAM:

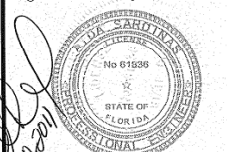


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PROJECT:

INTERIOR BUILD-OUT:
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7535 SW 88 STREET
MIAMI, FL 33156

MANAGEMENT:

#	REVISIONS	DATE

DATE: AUGUST 22, 2011

PROJECT No.: 044-11

DRAWN BY: A.Z.

CHECKED BY: A.S.

SHEET TITLE:

**MECHANICAL &
FIRE SPRINKLERS
FLOOR PLAN**

SHEET No:

MF

Miami Dade County Building Department

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Examiner

Date Time Stamp

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Ron Bennett

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FIRE Approved As Noted

NOTE: (F.B.C. 109.3.6.4.4) *TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633 OF THE FLORIDA STATUTES.